



85	gtg tca ggc aac gga atc cca gag ccg cag gtc tac gcc ccg cct cgg Val Ser Gly Asn Gly Ile Pro Glu Pro Gln Val Tyr Ala Pro Pro Arg 100 105 110	90	95	754
	ccc acc gac cgc ctg gcc gtg ccg ccc ttc gcc cag cgg gag cgc ttc Pro Thr Asp Arg Leu Ala Val Pro Pro Phe Ala Gln Arg Glu Arg Phe 115 120 125 130			802
	cac cgc ttc cag ccc acc tat ccg tac ctg cag cac gag atc gac ctg His Arg Phe Gln Pro Thr Tyr Pro Tyr Leu Gln His Glu Ile Asp Leu 135 140 145			850
	cca ccc acc atc tgc ctg tca gac ggg gag gag ccc cca ccc tac cag Pro Pro Thr Ile Ser Leu Ser Asp Gly Glu Glu Pro Pro Tyr Gln 150 155 160			898
	ggc ccc tgc acc ctc cag ctt cgg gac ccc gag cag cag ctg gaa ctg Gly Pro Cys Thr Leu Gln Leu Arg Asp Pro Glu Gln Gln Leu Glu Leu 165 170 175			946
	aac cgg gag tgc gtg cgc gca ccc cca aac aga acc atc ttc gac agt Asn Arg Glu Ser Val Arg Ala Pro Pro Asn Arg Thr Ile Phe Asp Ser 180 185 190			994
	gac ctg atg gat agt gcc agg ctg ggc ggc ccc tgc ccc ccc agc agt Asp Leu Met Asp Ser Ala Arg Leu Gly Gly Pro Cys Pro Pro Ser Ser 195 200 205 210			1042
	aac tgc ggc atc agc gcc acg tgc tac ggc agc ggc ggg cgc atg gag Asn Ser Gly Ile Ser Ala Thr Cys Tyr Gly Ser Gly Gly Arg Met Glu 215 220 225			1090
	ggg ccg ccg ccc acc tac agc gag gtc atc ggc cac tac ccg ggg tcc Gly Pro Pro Thr Tyr Ser Glu Val Ile Gly His Tyr Pro Gly Ser 230 235 240			1138
	tcc ttc cag cac cag cag agc agt ggg ccg ccc tcc ttg ctg gag ggg Ser Phe Gln His Gln Gln Ser Ser Gly Pro Pro Ser Leu Leu Glu Gly 245 250 255			1186
	acc cgg ctc cac cac aca cac atc gcg ccc cta gag agc gca gcc atc Thr Arg Leu His His Thr His Ile Ala Pro Leu Glu Ser Ala Ala Ile 260 265 270			1234
	tgg agc aaa gag aag gat aaa cag aaa gga cac cct ctc taggggtcccc Trp Ser Lys Glu Lys Asp Lys Gln Lys Gly His Pro Leu 275 280 285			1283
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Ser Met	Glu Ile Thr Glu Leu Glu Phe Val Gln Ile Ile Ile Ile Val				
	35		40		45
Val Val Met Met Val Met Val Val Val Ile Thr Cys Leu Leu Ser His					
	50		55		60
Tyr Lys Leu Ser Ala Arg Ser Phe Ile Ser Arg His Ser Gln Gly Arg					
65	70		75		80
Arg Arg Glu Asp Ala Leu Ser Ser Glu Gly Cys Leu Trp Pro Ser Glu					
	85		90		95
Ser Thr Val Ser Gly Asn Gly Ile Pro Glu Pro Gln Val Tyr Ala Pro					
	100		105		110
Pro Arg Pro Thr Asp Arg Leu Ala Val Pro Pro Phe Ala Gln Arg Glu					
	115		120		125
Arg Phe His Arg Phe Gln Pro Thr Tyr Pro Tyr Leu Gln His Glu Ile					
	130		135		140
Asp Leu Pro Pro Thr Ile Ser Leu Ser Asp Gly Glu Glu Pro Pro Pro					
	145		150		155
Tyr Gln Gly Pro Cys Thr Leu Gln Leu Arg Asp Pro Glu Gln Gln Leu					
	165		170		175
Glu Leu Asn Arg Glu Ser Val Arg Ala Pro Pro Asn Arg Thr Ile Phe					
	180		185		190
Asp Ser Asp Leu Met Asp Ser Ala Arg Leu Gly Gly Pro Cys Pro Pro					
	195		200		205
Ser Ser Asn Ser Ser Gly Ile Ser Ala Thr Cys Tyr Gly Ser Gly Gly Arg					
	210		215		220
Met Glu Gly Pro Pro Pro Thr Tyr Ser Glu Val Ile Gly His Tyr Pro					
	225		230		235
Gly Ser Ser Phe Gln His Gln Gln Ser Ser Gly Pro Pro Ser Leu Leu					
	245		250		255
Glu Gly Thr Arg Leu His His Thr His Ile Ala Pro Leu Glu Ser Ala					
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Ala Ile Trp Ser Lys Glu Lys Asp Lys Gln Lys Gly His Pro Leu					
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tttgttcaga	tcatcatcat cgtgggtggg atgatgggtga tgggtgggtgt gatcacgtgc
ctgtgtgagcc	actacaagct gtctgcaagg ttcttcatca gccggcacag ccaggggcgg
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ggcacaaggaa	tcccagagcc gcagggtctac gccccgcctc ggcccaccga ccgctgtggcc
gtgcgcgcct	tcgcccagcg ggagcgtctc caccgcttcc agcccacccta tccgtacctg
cagcacgaga	tgcacctgcc acccaaccatc tcgctgtcag acgggggagga gcccccaccc
taccaggggc	cctgcaccct ccagctctcg gaccccgagc agcagctgga actgaaccgg
gagtcggtgc	gcgcaccccc aaacagaaac atctctcgca gtgacctgat ggatagtggc
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agcggcgggc	gcgatggagg gccgcgcccc acctacagcg aggtcatcgg ccactaccgg
gggtctctct	tccagaccga gcagagcagt gggccgcctc cctgtctgga ggggaccggg
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Gln Ala Pro Thr Pro Ala Pro Ser Thr Ile Pro Gly Pro Arg Arg Gly  
15 20 25 30

tcc ggt cct gag atc ttc acc ttc gac cct ctc ccg gag ccc gca gcc 144  
Ser Gly Pro Glu Ile Phe Thr Phe Asp Pro Leu Pro Glu Pro Ala Ala  
35 40 45

gcc cct gcc ggg cgc ccc agc gcc tct cgc ggg cac cga aag cgc agc 192  
Ala Pro Ala Gly Arg Pro Ser Ala Ser Arg Gly His Arg Lys Arg Ser  
50 55 60

cgc agg gtt ctc tac cct cga gtg gtc ccg cgc cag ctg cca gtc gag 240  
Arg Arg Val Leu Tyr Pro Arg Val Val Arg Arg Gln Leu Pro Val Glu  
65 70 75

gaa ccg aac coa gcc aaa agg ctt ctc ttt ctg ctg ctc acc atc gtc 288  
Glu Pro Asn Pro Ala Lys Arg Leu Leu Phe Leu Leu Thr Ile Val  
80 85 90

ttc tgc cag atc ctg atg gct gaa gag ggt gtg ccg gcg ccc ctg cct 336  
Phe Cys Gln Ile Leu Met Ala Glu Glu Gly Val Pro Ala Pro Leu Pro  
95 100 105 110

cca gag gac gcc cct aac gcc gca tcc ctg gcg ccc acc cct gtg tcc 384  
Pro Glu Asp Ala Pro Asn Ala Ala Ser Leu Ala Pro Thr Pro Val Ser  
115 120 125

ccc gtc ctc gag ccc ttt aat ctg act tcg gag ccc tcg gac tac gct 432  
Pro Val Leu Glu Pro Phe Asn Leu Thr Ser Glu Pro Ser Asp Tyr Ala  
130 135 140

ctg gac ctc agc act ttc ctc cag caa cac ccg gcc gcc ttc 474  
Leu Asp Leu Ser Thr Phe Leu Gln Gln His Pro Ala Ala Phe  
145 150 155

taa 477

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<213> Homo Sapiens

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Pro Thr Pro Ala Pro Ser Thr Ile Pro Gly Pro Arg Arg Gly Ser Gly

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ccctaaagggt aaataatttt ttgcaaaagg gtttcctcga ttggagctt tttttttctt	180
ccaccgtcat ttctaactct taaaaccaac tcagttccat c atg gtg atg ttc aag	236
	Met Val Met Phe Lys 1              5
aag atc aag tct ttt gag gtg gtc ttt aac gac cct gaa aag gtg tac	284
Lys Ile Lys Ser Phe Glu Val Val Phe Asn Asp Pro Glu Lys Val Tyr	
	10              15              20
ggc agt ggc gag agg gtg gct ggc cggtgtg ata gtg gag gtg tgt gaa	332
Gly Ser Gly Glu Arg Val Ala Gly Arg Val Ile Val Glu Val Cys Glu	
	25              30              35
gtt act cgt gtc aaa gcc gtt agg atc ctg gct tgc gga gtg gct aaa	380
Val Thr Arg Val Lys Ala Val Arg Ile Leu Ala Cys Gly Val Ala Lys	
	40              45              50
gtg ctt tgg atg cag gga tcc cag cag tgc aaa cag act tcg gag tac	428
Val Leu Trp Met Gln Gly Ser Gln Gln Cys Lys Gln Thr Ser Glu Tyr	
	55              60              65
ctg cgc tat gaa gac acg ctt ctt ctg gaa gac cag cca aca ggt gag	476
Leu Arg Tyr Glu Asp Thr Leu Leu Leu Glu Asp Gln Pro Thr Gly Glu	
	70              75              80              85
aat gag atg gtg atc atg aga cct gga aac aaa tat gag tac aag ttc	524
Asn Glu Met Val Ile Met Arg Pro Gly Asn Lys Tyr Glu Tyr Lys Phe	
	90              95              100
ggc ttt gag ctt cct cag ggg cct ctg gga aca tcc ttc aaa qqa aaa	572

Gly	Phe	Glu	Leu	Pro	Gln	Gly	Pro	Leu	Gly	Thr	Ser	Phe	Lys	Gly	Lys	
			105					110					115			
tat	ggg	tgt	gta	gac	tac	tgg	gtg	aag	gct	ttt	ctt	gac	cg	ccg	agc	620
Tyr	Gly	Cys	Val	Asp	Tyr	Trp	Val	Lys	Ala	Phe	Leu	Asp	Arg	Pro	Ser	
		120					125					130				
cag	cca	act	caa	gag	aca	aag	aaa	aac	ttt	gaa	gta	gtg	gat	ctg	gtg	668
Gln	Pro	Thr	Gln	Glu	Thr	Lys	Lys	Asn	Phe	Glu	Val	Val	Asp	Leu	Val	
		135				140					145					
gat	gtc	aat	acc	cct	gat	tta	atg	gca	cct	gtg	tct	gct	aaa	aaa	gaa	716
Asp	Val	Asn	Thr	Pro	Asp	Leu	Met	Ala	Pro	Val	Ser	Ala	Lys	Lys	Glu	
		150			155					160					165	
aag	aaa	gtt	tcc	tgc	atg	ttc	att	cct	gat	ggg	cg	gtg	tct	gtc	tct	764
Lys	Lys	Val	Ser	Cys	Met	Phe	Ile	Pro	Asp	Gly	Arg	Val	Ser	Val	Ser	
				170					175					180		
gct	cga	att	gac	aga	aaa	gga	ttc	tgt	gaa	gg	gat	gag	att	tcc	atc	812
Ala	Arg	Ile	Asp	Arg	Lys	Gly	Phe	Cys	Glu	Gly	Asp	Glu	Ile	Ser	Ile	
			185					190					195			
cat	gct	gac	ttt	gag	aat	aca	tgt	tcc	cga	att	gtg	gtc	ccc	aaa	gct	860
His	Ala	Asp	Phe	Glu	Asn	Thr	Cys	Ser	Arg	Ile	Val	Val	Pro	Lys	Ala	
			200				205					210				
gcc	att	gtg	gcc	cg	cac	act	tac	ctt	gcc	aat	ggc	cag	acc	aag	gtg	908
Ala	Ile	Val	Ala	Arg	His	Thr	Tyr	Leu	Ala	Asn	Gly	Gln	Thr	Lys	Val	
		215				220					225					
ctg	act	cag	aag	ttg	tca	tgc	aga	ggc	aat	cat	att	atc	tca	ggg		956
Leu	Thr	Gln	Lys	Leu	Ser	Ser	Val	Arg	Gly	Asn	His	Ile	Ile	Ser	Gly	
		230			235				240					245		
aca	tgc	gca	tca	tgg	cgt	ggc	aag	agc	ctt	cg	gtt	cag	aag	atc	agg	1004
Thr	Cys	Ala	Ser	Trp	Arg	Gly	Lys	Ser	Leu	Arg	Val	Gln	Lys	Ile	Arg	
				250					255					260		
cct	tct	atc	ctg	ggc	tgc	aac	atc	ctt	cga	gtt	gaa	tat	tcc	tta	ctg	1052
Pro	Ser	Ile	Leu	Gly	Cys	Asn	Ile	Leu	Arg	Val	Glu	Tyr	Ser	Leu	Leu	
			265					270					275			
atc	tat	gtt	agc	gtt	cct	gga	tcc	aag	aag	gtc	atc	ctt	gac	ctg	ccc	1100
Ile	Tyr	Val	Ser	Val	Pro	Gly	Ser	Lys	Lys	Val	Ile	Leu	Asp	Leu	Pro	
		280					285					290				
ctg	gta	att	ggc	agc	aga	tca	ggt	cta	agc	agc	aga	aca	tcc	agc	atg	1148
Leu	Val	Ile	Gly	Ser	Arg	Ser	Gly	Leu	Ser	Ser	Arg	Thr	Ser	Ser	Met	
		295				300					305					
gcc	agc	cga	acc	agc	tct	gag	atg	agt	tgg	gta	gat	ctg	aac	atc	cct	1196
Ala	Ser	Arg	Thr	Ser	Ser	Glu	Met	Ser	Trp	Val	Asp	Leu	Asn	Ile	Pro	
		310			315				320					325		
gat	acc	cca	gaa	gct	cct	ccc	tgc	tat	atg	gat	gtc	att	cct	gaa	gat	1244
Asp	Thr	Pro	Glu	Ala	Pro	Pro	Cys	Tyr	Met	Asp	Val	Ile	Pro	Glu	Asp	
				330					335					340		
cac	cga	ttg	gag	agc	cca	aca	act	cct	ctg	cta	gat	gac	atg	gat	ggc	1292
His	Arg	Leu	Glu	Ser	Pro	Thr	Thr	Pro	Leu	Leu	Asp	Met	Asp	Gly		

345

350

355

tct caa gac agc cct atc ttt atg tat gcc cct gag ttc aag ttc atg 1340  
 Ser Gln Asp Ser Pro Ile Phe Met Tyr Ala Pro Glu Phe Lys Phe Met  
 360 365 370

cca cca ccg act tat act gag gtg gat ccc tgc atc ctc aac aac aat 1388  
 Pro Pro Pro Thr Tyr Thr Glu Val Asp Pro Cys Ile Leu Asn Asn Asn  
 375 380 385

gtg cag tgagcatgtg gaagaaaaga agcagcttta cctacttggt tctttttgtc 1444  
 Val Gln  
 390

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&lt;210&gt; 7

&lt;211&gt; 391

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 7

Met Val Met Phe Lys Lys Ile Lys Ser Phe Glu Val Val Phe Asn Asp  
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 Pro Glu Lys Val Tyr Gly Ser Gly Glu Arg Val Ala Gly Arg Val Ile  
 20 25 30  
 Val Glu Val Cys Glu Val Thr Arg Val Lys Ala Val Arg Ile Leu Ala  
 35 40 45  
 Cys Gly Val Ala Lys Val Leu Trp Met Gln Gly Ser Gln Gln Cys Lys  
 50 55 60  
 Gln Thr Ser Glu Tyr Leu Arg Tyr Glu Asp Thr Leu Leu Leu Glu Asp  
 65 70 75 80  
 Gln Pro Thr Gly Glu Asn Glu Met Val Ile Met Arg Pro Gly Asn Lys  
 85 90 95  
 Tyr Glu Tyr Lys Phe Gly Phe Glu Leu Pro Gln Gly Pro Leu Gly Thr  
 100 105 110  
 Ser Phe Lys Gly Lys Tyr Gly Cys Val Asp Tyr Trp Val Lys Ala Phe  
 115 120 125  
 Leu Asp Arg Pro Ser Gln Pro Thr Gln Glu Thr Lys Lys Asn Phe Glu  
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 Val Val Asp Leu Val Asp Val Asn Thr Pro Asp Leu Met Ala Pro Val

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145 150 155 160  
 Ser Ala Lys Lys Glu Lys Lys Val Ser Cys Met Phe Ile Pro Asp Gly  
 165 170 175  
 Arg Val Ser Val Ser Ala Arg Ile Asp Arg Lys Gly Phe Cys Glu Gly  
 180 185 190  
 Asp Glu Ile Ser Ile His Ala Asp Phe Glu Asn Thr Cys Ser Arg Ile  
 195 200 205  
 Val Val Pro Lys Ala Ala Ile Val Ala Arg His Thr Tyr Leu Ala Asn  
 210 215 220  
 Gly Gln Thr Lys Val Leu Thr Gln Lys Leu Ser Ser Val Arg Gly Asn  
 225 230 235 240  
 His Ile Ile Ser Gly Thr Cys Ala Ser Trp Arg Gly Lys Ser Leu Arg  
 245 250 255  
 Val Gln Lys Ile Arg Pro Ser Ile Leu Gly Cys Asn Ile Leu Arg Val  
 260 265 270  
 Glu Tyr Ser Leu Leu Ile Tyr Val Ser Val Pro Gly Ser Lys Lys Val  
 275 280 285  
 Ile Leu Asp Leu Pro Leu Val Ile Gly Ser Arg Ser Gly Leu Ser Ser  
 290 295 300  
 Arg Thr Ser Ser Met Ala Ser Arg Thr Ser Ser Glu Met Ser Trp Val  
 305 310 315 320  
 Asp Leu Asn Ile Pro Asp Thr Pro Glu Ala Pro Pro Cys Tyr Met Asp  
 325 330 335  
 Val Ile Pro Glu Asp His Arg Leu Glu Ser Pro Thr Thr Pro Leu Leu  
 340 345 350  
 Asp Asp Met Asp Gly Ser Gln Asp Ser Pro Ile Phe Met Tyr Ala Pro  
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 385 390

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 Met Ser His Gly Lys Gly Thr Asp Met Leu Pro Glu Ile  
 1 5 10  
 gcc gcc gcc gtg ggc ttc ctc tcc agc ctc ctg agg acc cgg ggc tgc 158  
 Ala Ala Ala Val Gly Phe Leu Ser Ser Leu Leu Arg Thr Arg Gly Cys  
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 Val Ser Glu Gln Arg Leu Lys Val Phe Ser Gly Ala Leu Gln Glu Ala  
 30 35 40 45  
 ctc aca gag cac tac aaa cac cac tgg ttt ccc gaa aag ccg tcc aag 254  
 Leu Thr Glu His Tyr Lys His His Trp Phe Pro Glu Lys Pro Ser Lys  
 50 55 60  
 ggc tcc ggc tac cgc tgc att cgc atc aac cac aag atg gac ccc atc 302



Gly Ser Gly Tyr Arg Cys Ile Arg	Ile Asn His Lys Met Asp Pro Ile	
65	70	75
atc agc agg gtg gcc agc cag atc gga ctc agc cag ccc cag ctg cac		350
Ile Ser Arg Val Ala Ser Gln Ile Gly Leu Ser Gln Pro Gln Leu His		
80	85	90
cag ctg ctg ccc agc gag ctg acc ctg tgg gtg gac ccc tat gag gtg		398
Gln Leu Leu Pro Ser Glu Leu Thr Leu Trp Val Asp Pro Tyr Glu Val		
95	100	105
tcc tac cgc att ggg gag gac ggc tcc atc tgc gtc ttg tac gag gag		446
Ser Tyr Arg Ile Gly Glu Asp Gly Ser Ile Cys Val Leu Tyr Glu Glu		
110	115	120
gcc cca ctg gcc gcc tcc tgt ggg ctc ctc acc tgc aag aac caa gtg		494
Ala Pro Leu Ala Ala Ser Cys Gly Leu Leu Thr Cys Lys Asn Gln Val		
130	135	140
ctg ctg ggc cgg agc agc ccc tcc aag aac tac gtg atg gca gtc tcc		542
Leu Leu Gly Arg Ser Ser Pro Ser Lys Asn Tyr Val Met Ala Val Ser		
145	150	155
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